American SEPTEMBER 1959 THIT Grower Tutted The september 1959 The september 1959 The september 1959 The september 1959

Your Vines and Their Needs Leave the Stems on Your Apples! **Automatic Peach Packing** President Plum in Idaho

Why the Davises Decided to Incorporate



Edwin, Albert, and James Pope (left to right) find Firestones outwear any other truck tires they've tried.

"WE GET A LOT MORE THAN LUCK WITH

says Albert Pope, the Pope Brothers, Harrison, Ohio. "My brothers and I have found Firestone Transport tires hold up better than any truck tires we've used They give good service in original wear and retreads—we get a lot more than just plain luck with Firestones."

we've used. They give good service in original wear and retreads—we get a lot more than just plain luck with Firestones.

And Ralph Collier of Taylor Bros., our Guilford, Indiana, Firestone Dealer, gives us fine service."

Farmers all over the country are finding Firestone truck tires save them money! It's only natural, too, because they're built with Firestone Rubber-X, the longest wearing rubber ever used in Firestone tires! With Firestone S/F (Shock-Fortified) cord, they stand up to the hardest knocks farm tires have to take! And there's a Firestone tire for every farm truck from half-ton pickups to heavyweight haulers. If you want extra low-cost mileage for farm to market runs, buy the famous Firestone Transport tire. For positive traction

in muddy feed lots, on slippery roads, or in soft fields, economical Firestone All Traction or Super All Traction tires are your best buy.

See your Firestone Dealer or Store and find out how Firestone truck tires give you extra service at no extra cost! See the complete line of Firestone tractor and implement tires, too. And remember, the Firestone Free New Tractor Tire Loaner Service keeps your tractors working while your Firestone Dealer or Store retreads or repairs your old tires.

CONVENIENT TERMS



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SAVE AND BE SURE with Firestone tires on all your wheels!



Costly signals of magnesium deficiencies

How big could these apples have been? How much bigger or better colored would every apple have gotten — if so many leaves hadn't fallen so soon?

But getting high-box yields is not just a matter of keeping apples and leaves on the tree till maturity. The leaves you keep on the tree must be healthy. They must make the high quantities of nourishment needed — to produce good fruit. Dropped leaves and dropped fruit are often the result of magnesium starvation.

What are the danger signs? Older leaves turn yellow between the veins. The faded part may scorch rapidly. Some die. The tree withdraws magnesium for fruit and new leaf formation from other essential growth functions. This cuts down the amount of available leaf surface for the manufacturing of building materials for fruit production.

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When should it be applied? Apply fertilizer containing Sul-Po-Mag as a continuing part of your fertility program. And to guard against deficiencies in your next crop get Sul-Po-Mag into your orchard this fall. Give it a chance to get into the root zone this fall and winter.

Ask your fertilizer dealer for mixed fertilizer containing Sul-Po-Mag. Complete fertilizers with Sul-Po-Mag can start paying crop dividends for you...right now.

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Look for this identifying Seal of Approval when you buy. It's your assurance of extravalue fertilizer.

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Grower

Cover photograph, by Gladys Diesing, shows a closeup of Italian brunes.

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APPLE GROWERS:

Now kill tree-destroying orchard mice with ORTHO® Endrin



The pine mouse has a small body, small tail, Roman nose, sunken eyes and brown fur. He burrows underground and girdles the roots. The meadow mouse has a large body, long tail, prominent eyes and dark grayish fur. He girdles the tree at ground level.

Ground spraying with ORTHO° Endrin is the most effective — most economical method for control of orchard mice.

Up until now, the control of orchard mice has been an expensive, time-consuming task. Previously used control measures such as hand-baiting, and the use of wire mesh screen, required costly hard labor and were not always effective. Now, ground spray with ORTHO Endrin gives you a sure, efficient method of control.

For complete information on the control of orchard mice, call your nearest ORTHO Fieldman.



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ON ALL CHEMICALS, READ DIRECTIONS AND CAUTIONS BEFORE USE

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FMC GIVES YOU— DEPENDABLE, CLOSE-BY SERVICE

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a cold hard fact when you apply it to FMC fresh fruit packing equipment. To some, dollar value means more labor-saving features. FMC machines have themmany with exclusive features found on no other machine. To others, dollar value means years of service. FMC machines do a better job all the time. No compromises. No make-shift arrangements. The machines are built to do a job, and they do it right. Plan now to deal with FMC. See why we say you get more in every way when you deal with FMC.

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LETTERS TO THE EDITOR

Togetherness or Independence?

Dear Editor:

Sort of paradoxical that you should choose to extol "togetherness" along with marketing orders, union tactics, etc., since the word was popularized by MeCall's which is controlled by one of the nation's largest fruit processors. In any case, another word, "independence," used to be the honored word and symbol of your country and, I dare say, many of your subscribers still cherish its meaning.

Editorial propaganda mills also grind relentlessly. When the magazine employs the same theme in consecutive editions, readers are entitled to full facts and figures, not just tantalizing notes citing high profits of a selected group of processors, wholesalers, and retailers. If we have to read about the mills of the gods in both the March and April issues, at least give us the names of those profitable enemy outfits so we can try to buy shares!

Cleveland, Ohio Henry M. Haserot, Jr.

Fruit Growing in Lebanon

Dear Editor:

Golden Delicious apples matured in July last year at the Philip Kfoury Experimental Orchard, at Khonchara, where Robert Kfoury is continuing the work started by his late father, Philip Kfoury, in testing more than 400 varieties of fruits and nuts for use in Lebanon.

Much research needs to be done on apple rootstocks in Lebanon. East Malling rootstocks are under trial as well as Clark dwarf. The reverse band bark graft is being tried to determine its usefulness in dwarfing standard root apple trees. Also under trial as a rootstock is the wild tree-like shrub of the Cratagus group commonly called Paul's Thorn.

There is much work to be done by the recently organized Ministry of Agriculture Extension Service and the scientists in the research division who must take the discoveries of fruit growers like Mr. Kfoury and standardize the application of this new information.

Jacca, E. Pakistan

Jean C. Miller

SMITH HEADS USDA LAB

DR. Marion A. Smith was appointed recently by USDA to fill the vacancy of head of the Chicago Fruit and Vegetable Disease Laboratory created when Dr. Glen B. Ramsey retired on May 31. Dr. Ramsey had served for 43 years as a USDA plant pathologist and had spent most of that time in the charge of the Chicago Laboratory.

Dr. Smith came to Chicago as assistant plant pathologist in 1942 after having been a specialist in fruit diseases at USDA laboratories in Missouri for 11 years.

Meterists will be attracted to your roadsid market—provided it is good-looking and wellocated. Working drawings for an attractive casy-to-build stand are available for \$2.00 from AMERICAN FRUIT GROWER, Willoughby, Ohio



Is your tractor losing torque because of its tires?

TRACTION SURE-GRIP



Torque has been boosted in the higher-powered tractors built during the past ten years. As much as 30% more drawbar pull is at your service.

But only a tire DESIGNED to harness it can make that torque pay off in extra travel per hour, in fuel savings per acre worked.

TRACTION SURE-GRIP is that tire! A look at the tread and shoulders will show you why.

Those extra-deep, ruler-straight lugs with "Wedge-In" action get a solid vise-like grip on the soil. The lugs extend the full width of the tire—and down to

the sidewalls for extra traction. Wheel-spin-even in a muddy field-is cut way down.

And bruises, buckle breaks, cracks and rim slippage have met their master, too. Goodyear 3-T Cord – triple-toughened by an exclusive process involving Tension, Temperature and Time—fights these troubles to a virtual standstill.

Here's the tractor tire that pays back its cost faster—and keeps on saving you money. See it on the new, more powerful tractors—or call your Goodyear dealer. Goodyear, Farm Tire Dept., Akron 16, Ohio.

FARM TIRES BY

GOODFYEAR

MORE FARMERS PREFER GOODYEAR TRACTOR TIRES THAN ANY OTHER KIND!



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Your apples will command a premium price, arrive at the market bruise-free when they're provided with KYS-PAK tree-to-table protection.

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KYS-PAK trays are available in sizes from 48 to 216 count for use with corrugated, wood or wirebound containers.



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Please send me complete details on KYS-PAK®"protective cushion" apple trays.

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American

Fruit for Health .



1000 acres of Concord grapes is one of the largest single uninterrupted the eastern United States. It is composed of several growers' plantings.

'Your INES WILL TELL YOU

By NELSON SHAULIS

New York State Agricultural Experiment Station, Geneva

A preharvest check will help you diagnose the nutrient status of your vineyard

THE diagnosis of the soil fertility in a vineyard can best be accomplished if the nutrient status of the grape vine is determined. This prob-lem may be approached in the following order:

1) Specify the vineyard goal in terms of vine vigor.

Three different goals are: a) to get the ripest grapes without respect toyield; b) to get the most vine vigor and crop without respect to quality, and c) to get the most grapes which are of acceptable quality for the buyer.

Since acceptable quality is of paramount economic importance to the grower, this discussion will be confined to that goal, taking as a basis a 4- to 7-ton per acre Concord grape crop testing 16 to 17% soluble solids in the middle of the harvest season.

If the grape foliage is free of deficiency symptoms at harvesttime and if the weight of cane prunings is 0.3 to 0.4 pound per foot of row, there is usually no grape nutritional problem except maintenance. If the vine vigor is more than 0.3 to 0.4 pound per foot of row, nitrogen fertilization can usually be reduced. With sound foliage and low vigor, nitrogen fertilization should be increased if none of the non-nutritional factors limiting the growth of the vines is important.

On vines with sound (free of deficiency symptoms) foliage in September, the use of any nitrogen fer-

tilizer affects the amount and maturity of the grape crop as it affects vine vigor. On vines with sound foliage in September, the addition of a potassium, magnesium, or manganese fertilizer has not affected vine vigor or yield or crop maturity. These conclusions come from five trials of vineyard fertilizers on Concord and Catawba in Chautauqua County and in the Finger Lakes area in 1944-1958. They do not confirm the idea of "hidden hunger" in grapes.

2) Determine the extent to which non-nutritional factors limit the growth of your grape vines.

The low vigor of vines is, in many instances, due to factors not related to nutrient deficiency. Some of these are: a) Dead-arm lesions on vine trunks; b) Shallow soil which is droughty; c) Over cropping by retaining too many buds; d) Inadequate soil drainage; e) Root injuries by tillage and root pests; f) Winter injury to trunk.

3) Identify by leaf symptoms and/ or petiole analysis the mineral elements which are in deficient amounts.

Faulty nutrition can cause grape leaves to be stunted, yellowed, blackened, or killed. These symptoms can be used to identify the deficient element. The extent of the deficiency can be rather accurately gauged by the time at which the symptom appears or by severity of the injury.

If the grower is familiar with the leaf symptoms of potassium, magnesium, or manganese deficiency, he should walk his vineyards in late August or early September to determine if symptoms are present. County agents and processors' fieldmen can be a great help in symptom identification if they have been specifically trained for this. Familiarity with leaf symptoms has made it possible to identify and gauge the severity of these nutrient deficiencies in more than 95% of the problem vines studied in the four-week period preceding grape harvest.

The alert vineyardist can notice the beginning of deficiency symptoms on only a few vines per acre. This can occur before a petiole sample, which mixes symptomless and symptom-showing vines, would be of most use. In fact, the recognition of a mineral deficiency symptom constitutes an immediate estimate of the approximate percentage of the element which is low in supply.

Petiole analyses from a late August or early September sampling of youngest mature leaves on bearing primary shoots can identify a mineral nutrient deficiency. This is true only if the critical value has been determined from field trials.

Another feature of petiole analyses includes pointing up elements which may become deficient or which are in

(Continued on page 21)

They Decided

TO INCORPORATE

Three generations of the Davis family, working as a team, believe incorporation is the answer to the continuing success of their orchard-dairy enterprise

By WILLIAM J. LORD University of Massachusetts, Amherst

JOHN A. DAVIS & Sons, Incorporated, Sterling, Mass., one of New England's leading dairy and fruit farms, is an example how family planning and working together can develop a successful farming enterprise. This is evidenced by the ownership of 1500 acres stretched over four townships in central Massachusetts.

The farm business developed into a partnership, owned and operated by John A. Davis and his two sons, George and Jonathan (Jock) Davis. Currently, 82-year-old John A. Davis is partially retired from the physical part of farming. George handles the dairy and Jock, the orchard.

George and Jock each have two sons. To continue the important concept of working together, the boys were made to feel the enterprise is "theirs" and to refer to it as "ours."

Jock's son Robert was graduated from Stockbridge School of Agriculture, University of Massachusetts, and is planning to enroll in a special course in business administration at Clark University this fall. John, another son of Jock, is transferring from Dartmouth to University of Massachusetts to major in animal husbandry. George's two sons, Dix and Abbott, will both be at Dartmouth this year. Dix was graduated in June but is returning to Tuck's Business School at Dartmouth and Abbott will be in his junior year at the University. He is majoring in biology. Both of the fathers are Dartmouth graduates.

"We agreed that a farm business partnership involving five to seven partners with varying degrees of ownership can have many drawbacks," said Jock. "We decided to incorporate. This insures that the business can continue even though something happens to one partner. Or, if he wants to sell his share of the enterprise," continued Jock, "the



Retail stand, constructed in 1953, is located in Bolton, Mass., about one mile from the orchards, homee the sign, "Bolton Orchards." All packing is done in view of the customer.

remaining partners can buy the stock within a reasonable time interval."

John A., George, and Jock take a yearly salary. When the boys return from college, they will be paid in shares of stock in addition to a regular salary. By the time George and Jock are ready to retire, the boys will have most of the stock.

"Each son will have a specific responsibility. My son Robert, for instance, will operate the orchard," Jock related. "However, major farm decisions are made as a group. You have no idea the time spent by the seven of us planning our new loose housing arrangement for the 150 purebred Holsteins."

The orchard enterprise consists of 200 acres of fruit, of which 170 acres are in apples. The other 30 acres are in peaches, pears, and quinces. "To my knowledge our 200 quince bushes are the largest planting of this fruit east of the Hudson River." said Jock.

Deer are an undesired livestock on the Davis farm. Several years ago deer killed about 150 two-year-old peach trees. As is the case with many growers, Jock did not get around to replace all the trees. One tree sprouted below the bud. This seedling peach, upon fruiting, looked promising except for fruit size. Later it was discovered that the lack of size could be blamed on a ledge under the tree.

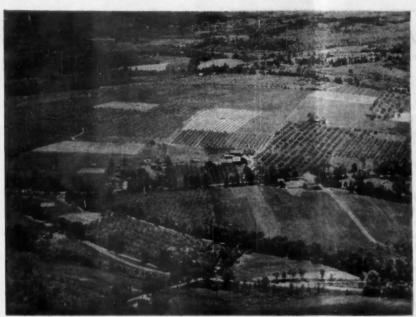
Other trees have been budded to

the seedling and size is satisfactory. John A. Davis and Sons have named the seedling "Golden Dawn" and have patent rights. Golden Dawn is of Erly-Red-Fre season, yellow flesh, and is a freestone when ripe. Several nurseries are interested in propagating the variety under contract.

Outstanding in the Davis orchard is a block of McIntosh trees planted in 1914. The trees in this block were planted 36 x 36 feet with a filler tree in the center of the square. The filler trees were removed in 1932 and every other diagonal row in 1945, leaving 18 trees per acre. The remaining trees now have 60-foot spread and none are over 20 feet in height. "It has not been necessary to lower the tree height as has been the case with many older blocks of McIntosh in Massachusetts," Jock went on to say.

"Sufficient planting distances facilitate many orchard operations, and at present the tree size is such that it is necessary to reduce tree spread on every other tree. When we get down to one tree per acre we will start all over again. Yields of over 1000 bushels an acre have been obtained for the past several years from the 18-tree-per-acre block."

"High production and efficiency of operation are musts," the veteran fruit grower stated. "Many expenses on a fruit farm do not change whether yields per acre are high or low. By

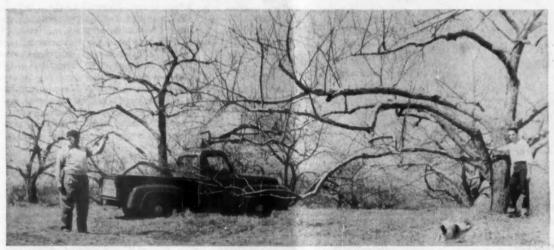


Aerial view of the Davis erchards which cover 1500 acres and extend over four townships.

Agricultural Extension Service. A John Bean 40 L Speed Sprayer serviced by one nurse truck is sufficient for the 200 acres. Four X concentration is used during the entire spray season. Dusts to supplement sprays in early season scab control.

Working in co-operation with the research pomologists from the University, they have used chemical thinners for 14 years on the Wealthy trees. The results have been successful, as evidenced by a good crop each year. Wealthy picking is usually delayed until the fruit is well colored, which is generally during the Mc-Intosh harvest. The combination of chemical thinning and proper dates of harvest has made the Wealthy block pay on the Davis Farm.

The past few years four to eight laborers from British West Indies have been hired during the harvest season to do work other than picking. It is difficult to get local help to do anything but pick even though some of them would make more



Jack Davis, left, and his son Bob show spread of branches on Maintosh trees planted in 1914. Throughout the years the orchard has been thinned until today only 18 trees per acre remain. Yields of over 1000 bushels per acre have been obtained for the past several years.

giving the trees plenty of room it is easier to keep them low for most economical management, to maintain vigorous fruiting wood as the trees get older, and to obtain the desired pest control."

For the Davis operation, hand pruning seems more logical than investing in power pruning equipment. Pruning keeps the regular crew busy during the winter. Crew size varies from one to six or seven depending upon labor needed for the dairy part of the enterprise. By swapping hands between the dairy and fruit farm, greater labor efficiency is obtained.

Fertilizer is broadcast by machine. The standard rate is 100 pounds of ammonium nitrate per acre supplemented every two or three years with 200 pounds per acre of muriate of potash. Dolomitic limestone is applied at regular intervals.

Low soil pH has been and continues to be a major problem in New England orchards. During the 1930's the soil pH on most of the Davis farm was about 4; it is now above 6.

In the past the Davis Farm has supplemented the fertilizer program with 300 to 400 tons of hay for mulch each year. Now that strawy manure is available from the pen stables it is spread in the orchard. The entire orchard can be covered once in five

The Davis Farm uses the standard spray program recommended by the

money doing something other than picking apples piece work.

The orchard is entirely palletized. It is the job of two girls to level the boxes. The foreman and two men follow with a tractor and trailer loaded with pallets. The foreman places the pallet near the filled boxes. Correct placement is important to facilitate loading it onto the truck. The foreman and two men then place 36 boxes on the pallet. The trailer is used as a reservoir, a place to put excess filled boxes or to supply boxes to complete the pallet load.

A tractor loads the pallets on trucks by means of a front-end pallet lift of which Jock was a co-designer. At the

(Continued on page 16)

State News

CALIFORNIA **Canning Peach Prices Set**

PRICE of \$45 a ton roadside has been established for freestone peaches for processing in California after California Freestone Peach Association's first offer of \$50 a ton was rejected.

"All of our association tonnage has been purchased by canners and every association grower is now assured of a market for his fruit," says Charles Telford, Modesto, association man-

The association's estimate of the total crop to be delivered has been shrinking daily, and it is now believed that only around 85,000 tons of freestones will reach the processing market this year as compared with the 120,000 tons delivered in 1958 at \$47.50 a ton.

California Freestone Peach Association's most recent estimate of 37,000 tons for its pool of canning fruit is 13,000 tons less than its original preharvest expectation.

The state's cling peach growers have accepted an average of \$58 a ton for the 1959 crop. The California Canning Peach Association agreed to the canners' price offer of \$50 a ton plus an average of \$8 for grade premiums and special bonuses. This was after the association's original asking price of \$60 was rejected.

This California grower's association's current estimate based on the harvest of extra early varieties indicates that the crop may pick near 560,000 tons.

The 1959 returns will be the lowest of any of the last five years.

FLORIDA Early Peaches

THE American Sumatra Tobacco Company of Quincy, in northwest Florida, is trying peach production again after a failure 30 years ago.

The problem then was that trees were not adaptable to the warm climate. This time hopes rest with a variety that is early bearing and requires a minimum of cold weather to put on top quality fruit of good size, the "Maygold."

The 80 acres of trees set out three years ago produced an average of one-half bushel of top quality fruit, and a fair amount of lesser quality. In all, 73,000 half-bushels of No. 1 grade went to brokers. The peaches were defuzzed, automatically graded, hydrocooled, and shipped in refrigerated trucks.

The cooled peaches received a warm reception in markets in the East and

Midwest, according to W. Sietzmeir, general manager of American Sumatra. He added that some advantage of an early crop was lost because of a three-week dry spell at a critical period. The company expects early peaches to be big business when its total of 160 acres come into full production.—James J. Cox.

WASHINGTON

Apple Law Killed

WASHINGTON'S C Grade apple law restrictions were declared unconstitutional by the County Superior Court in late July.

This law has been passed by the last session of the state legislature. To test its validity, Cecil C. Clark, Wapato fruit grower and 15th District state representative, brought court action against State Director of Agriculture, Joe Dwyer.

The bill eliminated C grade in red and partial red varieties of apples, a matter Clark labeled as arbitrary since it does not apply to apples of other colors.

VIRGINIA

Processing Apples Offered

THE board of directors of Eastern Fruit Marketers Co-operative, Inc., announced that it is offering apples to processors on the basis of U. S. One Canner grade, 2½ inches

up, at \$2.65 per cwt for York Imperials and \$2.35 per cwt for all other varieties.

The directors regard this as fan, realistic, and practical for both growers and processors; a rate at which apple products can be sold to consumers at prices which will continue adequate consumption.

NEW YORK

Apple Promotion

NEW York state's first Apple Marketing Order Advisory Marketing Order Advisory Board was organized in July and proposed an initial budget of \$320,000 for promoting New York apples and doing market research.

The board, appointed by State Agriculture Commissioner Don J. Wickham from a list of nominees, elected Marion Johnson, apple grower of Williamson, as chairman. Johnson also is president of New York State Horticultural Society and a director of National Apple Institute. Roger Forrence, Peru, eastern New York grower, was elected vice chairman, and C. Henry Gowdy, Hudson Storage and Ice Corporation, Hudson, was made secretary.

Funds to advertise and promote the New York apple crop, as well as providing for market research, are to be derived from assessments on apples sold in this state. Fresh apples will be assessed 3 cents a bushel, apples for processing except for juice, 4 cents per 100 pounds, and apples for juice, 2 cents per cwt.



NATIONAL PEACH COUNCIL SPONSORS TRADE MEETINGS

The 1959 Peach Trade Conferences were held in the nation's two great volume consuming areas, the Northeast and the Midwest. Philadelphia was the scene of the eastern meeting co-chairmanned by R. Samuel Dillon, Jr., president of National Peach Council, and H. D. Williamson, head produce buyer, American Stores Co. The Chicage Trade Conference had for its leader Curt Eckert, choirman of NPC promotions committee.

ham, of Summersweet Orchards, Wynne, smiles approvingly at display of fancy famile Redhavens shipped from his orchards espe for the Chicago conference. Bassham is 1st president of NPC. Also approving are, it right: Jack Bittner, district marketing spec St. Joseph, Mich.; Martha Crane, food e WLS Radio-TV. Chicago; Curt Eckert, Ecker chard Association, Belleville, III.; G. Geller, California Tree Fruit Agreement, Sacrament

AMERICAN FRUIT GROWER



How Washington Growers Prevent Harvest Drop on Apples and Pears

THREE types of growth-regulat-ing chemicals are used to prevent harvest drop on apples and pears in Washington. Each of these has specific characteristics which make them applicable to certain conditions in a given orchard.

The grower, in selecting the material to use, should take into account the locatiton of his orchard, its size in relation to the time required to harvest, and the varieties of apples and pears. It is absolutely essential that the correct concentration and correct form of the material be strictly adhered to if the right response is to be

Naphthalene acetic acid (NAA) for the past 20 years has been and still is the material most generally used for drop prevention. Its effective period is about three to four weeks under relatively warm fall conditions with no frost. The period from application to effect is two to three days.

In an orchard where there are both Delicious and Winesap varieties maturing at different times, it is often necessary to spray each variety separately in order to obtain the greatest protection from drop. NAA must be applied so that it becomes effective before apples or pears begin to drop.

NAA is applied on apples at the rate of 48 grams per acre as a concentrate spray, 4 grams per 100 gal-lons of spray or 10 ppm (parts per million) as a dilute or bulk spray application. Bartlett pears require 24 grams per acre as concentrate, or 5 ppm as a dilute spray. NAA can be applied with complete safety at the proper time.

As a drop preventive 2,4,5-TP has the advantage of a longer effective ment in a bulk application, a minimum of 400 gallons of spray per acre. Where this method can be used, Winesap and Delicious can be sprayed at the same time with a high degree of drop control.

This chemical requires seven to 12 days to become effective. It is best adapted as a ground spray at the rate of 10 ppm. When applied in this manner, using at least 400 gallons of spray, it has never caused injury on

When applied in concentrate form by aircraft, the effective period is about the same as that of NAA. Occasionally, 2,4,5-TP has caused injury to terminal shoot growth on young trees when concentrated for aircraft application. This condition, noticed the year after application, has not been



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We have many fine varieties of this yellow-fleshed Nectarine ripening in the period of June thru mid-September. Write for our descriptive matter in color, together with price lists. Most all standard varieties of Fruit Trees and Grape Vines are also in Supply.



BOOKS for your orchard library

Hanna's Handbook of Agricultural Chemicals, by Lester W, Hanna, Contains descriptions of over 500 commercial chemicals. Various common names and numerical designations of fertilizers, fumigants, fungicides, weed killers, insecticides, rodenticides, etc., are explained as to composition, use, caulions, and antidotes in this pocket-size manual. 209 pages \$5.95

• Irrigated Soils, by D. W. Thorne and H. B. Peterson. This book discusses soil management of arid and semi-arid soils where irrigation is necessary to crop production. Drainage, land reclamation, soil microbes, organic matter, fertilization, and crop management are discussed fully. The chapters on planning and carrying out irrigation are expecially valuable. 392 pages.

Western Fruit Gardening, by Reid M. Brooks and C. O. Hesse. A handbook for the home gardener in the West on fruit varieties; climatic adaptations; soil, water, and nutrient requirements; pruning and propagation; and control of diseases and pests. 287 pages.

American Wines and Wine Making, by Philip M. Wagner. A practical illustrated book for the small grape grower and home wine-maker. Chapters on French wine-growing and on the American wines of California and the East serve as a first-rate guide.

Plant Regulators in Agriculture, edited by M. B.

Plant Regulators in Agriculture, edited by H. B. Tukey. Seventeen specialists present the many different uses of plant regulators and tell what they are, how they operate, how plants respond, and where they belong in agriculture. 269 pages....\$6.50

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extremely serious, but growers are cautioned about using 2,4,5-TP as a concentrated application on young growing trees. Since the blossom end of pears ripens prematurely when they receive a 2,4,5-TP application, spray drift should be kept away from

At 3 ppm, 2,4-D is a safe and highly effective spray in drop prevention on Bartlett pears. Its chief advantage over NAA is again a long effective period. In addition, it has a very low cost. Only the amine form of 2,4-D should be used and it must be applied in bulk spray at a concentration of 3 ppm.

Stock solution from a 4-pound acid equivalent per gallon formulation may be prepared by mixing 1 quart 2,4-D with 12 gallons of water. By using ¼ pint of this stock solution per 100 gallons of spray mixture, 3 ppm spray is obtained. It is important to avoid using any ester forms of this chemical.

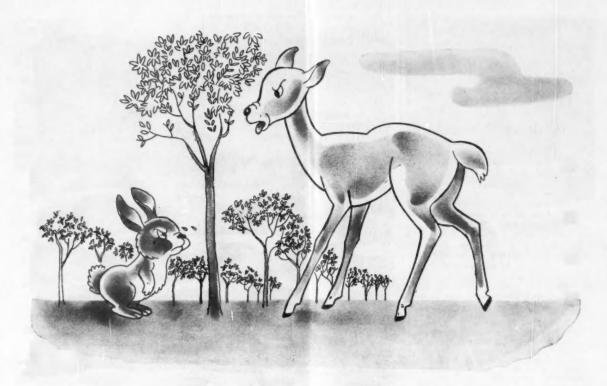
While 2,4-D may be used on Winesap and Stayman varieties, it is not effective on other apple varieties. Occasionally, a foliage dwarfing on the lower, weaker limbs of Winesap is discovered the year following application. This type injury is most often observed in warmer valleys at the lower elevations. Some Winesap and Stayman growers in the upper, cooler valleys have continued to use 2,4-D very successfully for many years.

On apples 2,4-D must be applied about three weeks before the anticipated drop, since it requires that long to become effective. It should be applied in a bulk spray only at the rate of 8 ppm, using the amine form as previously described for pears.

Drop prevention sprays have been used with a high degree of success by Washington apple growers for 20 years. When used properly, they have saved 25% of a crop in hundreds of cases. However, in recent years apple growers have been concerned about possible misuse of the sprays. Misuse comes from using the sprays to hold the fruit on the tree for color development even though the fruit has passed optimum maturity.

Drop prevention sprays are intended only to hold the fruit on the tree until it can be harvested at the most desired maturity and to prevent heavy losses during harvest periods where there is considerable wind or when harvest is delayed by rainy and cool periods.-Richard D. Bartram, Chelan County Extension Agent, Wenatchee, Wash.

A "San Bernardine County (Calif.) Breakfast," pearheaded by citrus and apple growers, poul-rymen, and dairymen, will be held October 1 a San Bernardino. For every ticket sold to a rower or turmer, some industrial, business, or ivic leader is being invited as a guest.



New, improved Z.I.P. taste repellent

turns animals away!

Here's the repellent you need to protect valuable nursery stock, seedlings, and ornamentals from nibbling animals and rodents. Bitter tasting Z.I.P. effectively turns animals away but doesn't harm them or the plants. This improved formulation was developed with the U.S. Fish and Wildlife Service for safe, effective plant protection. The active ingredients of new Z.I.P. will not settle out; they mix easily with water for spray or brush application. Special adhesives give better sticking qualities to insure long-lasting results through all kinds of weather.

Z.I.P. taste repellent can be used safely during either the growing or dormant season. When animals encounter plants or trees treated with Z.I.P., they generally leave the area to find more palatable feed. Get safe, effective protection, use new improved Z.I.P. for . . .

- easier mixing
- even spreading
- better sticking qualities
- long-lasting protection
- · no settling out

Z.I.P. can also be used as a border treatment for vegetables, greens, fruits, and berries. Write for more information.



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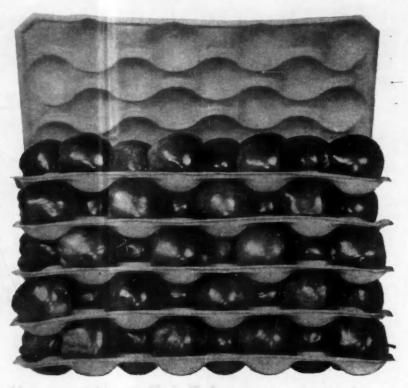
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The symbol of perfect fruit protection from grower to consumer.

Here is a completely new and revolutionary mechanical principle for fruit trays, developed through years of experience and devotion to the best interests of the fruit industries by the original fruit tray manufacturer, FRIDAY PACK COMPANY.

The new Friday Spring Cushion tray provides a unique spring-supported hammock for each apple. This two-sided tray is designed with a double function; it not only fully supports the fruit in the layer it holds, but also fits evenly upon the apples in the layer beneath. Each apple is held firmly, but apart, in its own measured soft fiber cup, eliminating friction and bruising. Their exclusive, unique design and structure equally protects long or round apples. Your fruit will arrive at the market in an appealing "orchard-picked" condition.

By certified tests, no other fruit tray approaches the performance of this new FRIDAY SPRING CUSHION TRAY. Here is the fruit tray of the future

The design and structure of these NEW FRIDAY SPRING CUSHION TRAYS make them equally perfect for use in hand packing or in automatic machine packing, and they are likewise suitable for use in either the fiber or wooden container.

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Friday Pack Company is affiliated with Pacific Pulp Molding Company, and together they are the originators and exclusive manufacturers of Friday Cushion-Pak and Friday Spring Cushion fruit trays.



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CALENDAR OF COMING **MEETINGS & EXHIBITS**

Aug. 36-Sept. 3—American Institute of Biological Sciences and member biological societies, including American Society for Horticultural Science, annual meetings, Pennsylvania State University, University Park.—R. E. Larson, Chairman, Penn. State Univ. University Fark.

Aug. 31-Sept. 1.—United Fresh Fruit and Vegetable Association annual Merchandising and Management conference, Drake Hotel, Chicago, Ill.—Association headquarters, 777 14th St., N. W. Washington 5, D.C.

Sept. 4-12—New York State Fair, Syracuse.

Sept. 11-12—New Jersey State Horticultural Society summer fruit tour, leaves for West Virginia from: College Farm, New Brunswick, and G.L.F. Feed Plant, Bordentown.—Ernest G. Christ, Sec'y, Horticulture Bldg., College Farm, New Brunswick.

Sept. 14-16—United Fresh Fruit and Vegetable Association annual merchandising and market-ing conference, Drake Hotel, Chicago, III.— Association headquarters, 777 14th St., N.W., Washington 5, D.C.

Sept. 14-16—Texas Citrus and Vegetable Grow-is and Shippers meeting, Hotel Statler Hilton, allas.—Austin E. Anson, Exec. Vice Pres., 16 East Jackson, Harlingen.

Sept. 16-19—Jackson County Apple Festival, Jackson, Ohio.

Sept. 17-19—8th Annual Apple Festival, Murphysboro, Ill.—For information, Robert C. Voss, 1303 Walnut St., Murphysboro, Ill.

Sept. 23-25—Florida Fruit and Vegetable Association meeting, Hotel Fontainebleau, Miami Beach.—Joffre C. David. See'y-Treas., Orlando.

Oct. 4-7—National Association of Marketing Officials annual convention, Asheville, N. C., and Atlanta, Ga.—Wm. A. Wunsch, Pres., State College, N. M.

Oct. 11—Ohio Nut Growers Association fall meeting, Davey Technical Service Center, Kent, Ohio.—E. M. Shelton, Sec'y-Treas., 1468 W. Clifton Blvd., Lakewood, Ohio.

Oct. 15-24—National Apple Week Association, Inc., fall national apple promotion.—National Apple Week Ass'n, Inc., 1302 18th St., N. W., Washington 6, D. C.

Oct. 21-23—National Agricultural Chemicals Association 26th annual meeting, French Lick-Sheraton Hotel, French Lick, Ind.—Lea S. Hitch-ner, Exec.-Sec'y, 1145 19th St., N. W., Washing-ton 6, D. C.

Oct. 27-29—Florida State Horticultural Society 72nd annual meeting, Everglades Hotel, Miami.— S. John Lynch, Pres., 29800 Newton Rd., Home-stead, Fla.

stead, Fla.

Oct. 27-29—Western Growers Association meeting, Ambassador Hotel, Los Angeles, Calif.

—Frank E. Castiglione, See'y, 3091 Wilshire Blvd., Loe Angeles S.

Nev. 23-24—Illinois State Horticultural Society annual convention, Abraham Lincoln Hotel, Springfield.—Robert Rogers, See'y, Carbondale.

Nev. 30-Dec. 3—Entomological Societies of America, Canada, and Ontario 1st joint meeting, Sheraton-Cadillac Hotel, Detroit, Mich.—Arnold Mallis, Gulf Research & Development Co., P.O. Drawer 2038, Pittaburgh 30, Pa.

Dec. 3.4—Idaho State Horticultural Society.

Deau, 2038, Pittsburgh 30, Pa.

Dec. 3-4—Idaho State Horticultural Society, 65th annual meeting, Hotel Boise, Boise, Idaho—Anton S. Horn, See'y, 317½ North 8th, Boise.

Dec. 6-10—National Junior Vegetable Growers Association convention, Roosevelt Hotel, Washington, D. C.—Grant Snyder, Nat'l Chairman, French Hall, U. of Mass., Amherst.

Dec. 7-9—Washington State Horticultural Association annual meeting, Wenatchee.—John C.

Dec. 7-9—Washington State Horticultural Association annual meeting, Wenatchee.—John C. Snyder, See'y, Pullman, Wash.

Dec. 7-19—Vegetable Growers Association of America annual convention, Dennia and Shelburne Hotels, Atlantic City, N. J.—R. M. Frederick, Exec. See'y, 528 Mills Bldg., 17th St. and Pennsylvania Ave., N. W., Washington 6, D. C. Feb. 3-5—Ohio State Horticultural Society annual meeting, Neil House, Columbus.—C. W. Ellenwood, See'y, Rt. 2, Wooster.

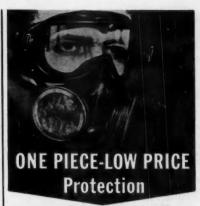
Feb. 8-19—American Pomological Society joint meeting with State Horticultural Association of Pennsylvania, Yorktowne Hotel, York, Pa.—George M. Kessler, APS Sec'y-Treas, East Lansing, Mich.

Feb. 18—28th Annual National Cherry Pie Baking Contest, Sheraton Hotel, Chicago, III.— National Red Cherry Institute, 36 E. Wacker Drive, Chicago 1, III.

Feb. 21-24—National Peach Council annual convention, Sheraton-Park hotel, Washington, D.C.—Bob Rogers, Sec'y-Treas., 302 Walnut St., Carbondale, Ill.

April 14-15-2nd Western Conference on Post Harvest Physiology & Biochemistry, Univ. of Calif., Davis-Public Service Office, Univ. of Calif., Davis.

Apr. 28-30—Shenandoah Apple Blossom Festival, Winchester, Va.



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field of vision). Top quality charcoal in
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Stone Fruits

Automatic Peach Packing

WITHOUT automation the crew of 40 workers at the Crowley Ridge Peach Growers Association packing house in Forrest City, Ark., could never handle 900 packed wirebound crates every hour as it does now.

The incoming field crates are automatically dumped onto a conveyor system that carries the fruit through a de-fuzzer, graders, and sizers to four automatic filling stations. Empty wirebound crates, with tops folded back, are brought to the area on overhead conveyors leading to the filling stations and are automatically moved into position over mouth of filler.

The weight of the fruit gradually lowers the crate and when a pre-set poundage is reached, it is ejected and is automatically moved to a master conveyor which carries it to a hydrocooler. The capacity of the hydrocooler was increased 20% by the rectangular shape of the wirebounds.

It was estimated that it would require 156 persons to pack 900 crates of peaches if manual operations, and round containers were used.



Everything about this operation is automatic. Peaches are de-fuzzed, graded, sized, and conveyed to filling stations. Rectangular wirebound crates increase capacity of hydrocooler.

Peach sales are by Summersweet Orchards Sales Company which also supervises the packing operation.

President Plums in Idaho

THE President plum is new in Idaho, but acceptance has been good and growers have made money even though acreage is small. About

75 cars are marketed in late September.

But acreage of this late-ripening, large, European-type plum is increasing. In 1956 there were 37,862 trees, while the 1958 total was 40,498. During that same period, the number of Italian prune trees decreased from 340,886 in 1956 to 328,152 in 1958.

The President variety seems to do

Smileage on the form TRACTOR TIRE CLOSE-OUT SALE

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For a limited time your B.F.Goodrich Smileage dealer is selling full-size B.F.Goodrich Super Hi-Cleat tractor tires at prices starting at only \$37.75.

Here's a once-in-a-lifetime opportunity to get these pullbetter, stay-clean, easy-to-maintain Super Hi-Cleat tractor tires at a new low price. A small down payment will put a set of these hard-working B.F.Goodrich tractor tires on your tractor now—and you have months to pay the balance.

Your B.F.Goodrich Smileage dealer has a complete line of tires for every rolling wheel on your farm. He is listed under Tires in the Yellow Pages of your phone book. See him today. The B.F.Goodrich Company, Akron, Ohio.

equally well in Canyon, Gem, Owyhee, and Payette counties.

Arthur Van Slyke of the Central Cove area near Wilder in Canvon County, believes the President definitely has a lasting place on the fresh fruit market. He has planted 21 new acres, spacing the trees 20x20 feet with the Giant variety placed every third tree in every third row as a pollinator. The trees bear some fruit the second year.

The variety must be thinned to get good size. Art feels that if he could control pollination by reducing the number of pollinator trees, the thinning job would be easier. As a general rule, the fruits are thinned to at

least 4 inches apart.

Van Slyke applies 3½ to 5 pounds of ammonium nitrate per tree each year about six weeks before bloom. He doesn't prune every year, but sprouts are cut out and branches thinned so the tree is not a brush pile. He is heading his new planting closer to the ground. To prevent winter sunscald to which these trees are very susceptible, the tree trunks are shaded from the afternoon sun in January, February, and March.

Alfalfa makes a good cover crop in the bearing orchard. Van Slyke mows it or beats it down a few times a year, but never harvests it.

The plums pack 13/4 to 21/8 inches or 13/8 to 21/4 inches. The consumer wants large, deep blue fruit. Yield in a bearing orchard is a car to the acre, and Art loads about 896 half bushels per car. Plums are packed in half bushel baskets, but if pre-cooling is used, they may go to cardboard boxes holding the same amount.

Van Slyke solves his problem of mealy plum louse by using a very delayed dormant spray of parathion and oil. Sometimes he gets it on only a few days before bloom. Conditions in his area seem to be favorable for this spray and he gets by with no injury.

Twig borer, peach tree borer, and slugs must also be controlled. He uses the summer DDT trunk sprays

to control peach tree borer.

Other successful growers of the President variety are Ralph Skinner and his son, George, of Emmett in Gem County. They each own 10 acres.

Earl Kirk, of Payette, in Payette County, one of the first to grow Presidents, has expanded his acreage and has worked out a good system of pruning.

Leslie Reed, of Emmett, has experimented with chemical thinning.

All growers are enthusiastic about the President.-Anton S. Horn, Ext. Hort., University of Idaho, Boise.

THE **QUESTION BOX**

o't be perplexed! Send us your ques ther how big or smail. A 4-cent st ng you an early reply. Address: The , AMERICAN FRUIT GROWER, WI

ICINTOSH MECHANIZATION
Since McIntosh apples are easily bruised and
ave to be handled expectally carefully, what
re the chances of ever being able to handle
hem mechanically?—Massachusetts

The Agricultural Marketing Service of USDA has developed a mechanical packing line that handles McIntosh just as gently line that handles McIntosh just as gently as does hand labor. The apples move mechanically from storage to packing case with little or no bruising. They make the trip quickly and easily—with less labor and at less cost to the packer.

Although still in the experimental stage, the AMS-designed line promises to greatly improve the operation of East Coast apple reaching houses.

packing houses.

packing houses.

The experimental line has six principal parts: an automatic dumper, an adjustable sorting table, a dimension sizer, an automatic box filter, a return flow belt, and a mechanical tray packer.

NECTARINES FOR NEW JERSEY
I understand there are necturines that
been bred and tested for grewing under
Jersey conditions. Can you give me the ve
names and tell me where I can obtain tree
New Jersey.

The varieties are Nectarose, Garden State, Nectaheart, Nectacrest, and Nectalate. Send orders to New Jersey Peach Council, Inc., R. D. No. 3, Princeton, N. J.



B.F. Goodrich farm tires



To pick apples correctly, lift fruit to one side and up giving slight turn as you do so.

Apples

Leave the Stems!

TEARING out its stem makes even a fancy apple a cull. Stem pulls break the skin and make the fruit vulnerable to bacterial attack by exposing the flesh. Compared with an injury such as small scab spot, stem pulls are much more apt to stimulate decay and many of the "rots" that develop in storage are due to this defect.

Stem pulls are in the same category as bruising through which millions of bushels of apples lose their value each year. At the present time, USDA standards do not require stems for apples, however, most of the large apple-producing states definitely down-grade fruit injured in this way. In Washington State apples from which the stems have been pulled are considered culls.

Stem pulls can be eliminated to a great extent by proper picking. Careful instruction to each picking crew



Photos by H. P. Gaston
When apples are hard to pick index finger is
placed where fruit stem and spur are joined.

is a necessity, and new pickers need to be shown, not just told.

Probably the best way to pick apples is to raise the fruit to one side with the fingers and twist the wrist. If apples are hard to pick, the end of the thumb or forefinger should be placed against the stem at the point where it is attached to the fruit spur or twig. Holding the finger in this way as the twist is made enables the picker to remove the fruit without pulling stems or breaking fruit spurs. When apples are pulled instead of being twisted, very often the spurs come off with them, thereby reducing the next year's crop.

THEY INCORPORATED

(Continued from page 11)

time Jock was considering a completely palletized operation no pallet lifts were available for use in orchards. Jock designed the front-end pallet lift and had it made to specifications by a local manufacturer of hydraulic shovels.

Three trucks and two drivers are used for hauling so that one truck is

always available for loading in the orchard. A truck carries 8 or 10 pallets.

Of the yearly 60,000 to 80,000 bushel crop 14,000 bushels are stored on the Davis Farm. The balance is hauled to a storage 15 miles away.

"Even if my entire crop were stored on the farm, I would use pallets in the orchard and trucks for hauling," said Jock. "The investment in old trucks is relatively small and they can be used for many purposes," he continued.

The refrigerated storage on the Davis farm is used principally to supply the retail stand.

The retail stand is located at the junction of two secondary routes (110 and 117) about one mile from the orchards. The stand, constructed in 1953, is a 72 x 60-foot Butler steel building erected by the Davis farm help. It has a 24 x 72-foot display area with a packing area in back. All packing is done in view of the customers. Parking facilities are ample with a 30-car macadam lot in front of the stand and a 2-acre lot in back.

Fruit is sold in 2-, 4-, 8-, and 16quart containers and bushel baskets. People are encouraged to come often rather than buy large quantities at one time.

Visiting the Davis fruit stand one is impressed with the parking facilities, neatness of surroundings and the stand itself, the attractive fruit displays, and the friendliness of the sales personnel. The sales girls wear green smocks with a red apple on each pocket.

John A. Davis & Sons, Incorporated, is an outstanding example of a family achievement made possible by working as a team. Talking to Jock, one gathers that his brother George and he are ready to start "sitting on the bench" and let the boys take over more of the responsibilities.

The End.



Introducing the New Economy Bagger

Average Growers Report Savings Up to \$2,000.00 Per Year on Containers

- FEATURES:
- 1. Eliminates Bruising. 2. Bags 100 Bu. per hour.
- 3. Bags Bushels or 1/2 Bu.
- 4. Handles paper bags, burlap, mesh of polyethelene.
- All sponge rubber padded, heavy duty canvas covered.
- Customers prefer bags for loading into cars.

Manufactured and Distributed by WISCONSIN ORCHARD SUPPLY COMPANY



IDEAL FOR:

- Roadside Stands
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- Bulk Sales
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- Institutional Selling
 Saves Baskets—
 use bags
- Bags Apples, Pears, Peaches, Nuts, Potatoes, Peppers, Onions, Cucumbers, Anything that Rolls!

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By HENRY BAILEY STEVENS

in the Wind

Two Straws I GOT a new look at the eastern apple market the other day from a meeting of

New England growers at the Chandler orchards in Sterling Junction, Mass. Testimony was unanimous that controlled atmosphere storage, if properly used, can mean a steady all-year consumer demand.

"Don't let the harvested fruit sit out more than one night." "Be sure your wood is clean; fumigate it if necessary." "Precool enough pallets so that you can fill the CA storage quickly." "Don't think you can put poor apples in and take good ones out." "Firm fruit is a No. 1 requirement."

Success at a Deep Level

AFTER lunch an expert in advertising and promotion, E. Brook Lee, Jr., of Scott Paper

Co., caught us up with current concepts of psychology in the trade: how in order to sell security into the foundations of an industry, we must understand people from their very inside, feel ourselves a part of them, and persuade them to feel at one with us. This is empathy as distinct from sympathy, which feels with people but at arm's length. Mr. Lee's



company believes this doctrine so thoroughly that it has recently formed an advisorv committee of its own customers to help guide its policies.

"Make yourself one with the consuming public" is the kernel of the philosophy.

A three-dimension apple tree with cellophane bags of McIntosh hanging from its branches has had a very successful trial run in 48 northeastern supermarkets. It was designed by Paul Sullivan, and the Apple Institute plans to put it on the full road this season. The customer walks up to a branch, unclips her own bag and feels herself closer to the primal source. It's a "soft sell" idea, and again puts the emphasis on empathy.

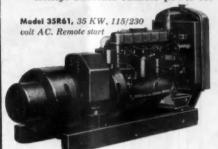
Address your "Windfalls" contributions to Henry Bailey Stevens, American Fruit Grower, Willoughby, Ohio.

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cially for peaches and easily ed apples. Write for folder.

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SEPTEMBER, 1959

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Low Cost Bagger

Many growers with modest size orchards have wanted a bagger which would do a prepackaging job for them at low cost. Wisconsin growers have found such a piece of equipment, and growers there tell us it will bag up to 100 bushels per hour and will handle paper, burlap, mesh, or polyethylene. Sponge rubber padding protects the fruit, and the bagger has been used for apples, pears, peaches, nuts, potatoes, peppers, and onions. The machine weighs 90 pounds shipped, and costs only \$139.50. Write to W. E. Aeppler, Wisconsin Orchard Supply Co., Dept. BF, 704 Concord Rd., Oconomowoc, Wis.



Easier Packing

Midwestern growers like the new machine pictured above which has resulted in substantial savings. With one stroke of the foot pedal the machine completely sets up a corrugated strawberry container. The machine was specifically designed for use with Bas-Kit containers introduced by Fruit and Produce Packing Co.

- Versatile Bagger
- Little Giant Pump

three years ago. Fruit and Produce Packing invites all AMERICAN FRUIT GROWER readers to come and see the new machine at the Fruit and Produce warehouse in Springfield, La. To get the latest information on the new machine and Fruit and Produce Packing fruit boxes, write L. K. Ketler, Fruit and Produce Packing Co., 700 West Morris St., Indianapolis, Ind.



Pump Profits

We have been using a new self-priming pump in our orchard which you should know about. For filling our spray tanks, doing supplemental irrigation and even spraying, the little giant has no equal. Powered by a Briggs and Stratton one cylinder, four-cycle engine, it starts with one or two quick pulls of the recoil starter and pumps at pressures of 150 pounds at 10 gpm. We have used the pump in sandy water and for pumping captan, glyodin, and other fungicides and insecticides without wear or harm to the neoprene impellers. In fact the little pump does about everything. You, too, would be wise to invest in a Pacific Marine pump. They cost only \$145 F.O.B. Seattle and will quickly earn their original investment. Write Bob Ladd, Pacific Marine Supply Co., 1223 Western Ave., Seattle, Wash.

New Apple

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Growers in the Northwest are watching and planting a new Delicious apple. The new variety, called Redspur, is a semi-dwarf and was discovered as a whole tree bud sport in a block of Starking Delicious in the Richey & Gilbert orchard near Parker, Wash. The tree has a very compact type of growth, forming more spurs per unit length of wood, thus lessening terminal growth. The new variety has been granted a patent, and propagation rights have been assigned to Columbia & Okanogan Nursery. You'll want to know more about this promising variety. Write John Snyder, Columbia & Okanogan Nursery, Box 116, Wenatchee, Wash.

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The layman's primer, the professional's reference
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4 HP GARDEN ROTARY TILLER, SPRAYER, tractor. Combined all. \$119.00 Special. \$227.00 Value. UNIVERSAL MFG., 324 West Tenth, Indianapolis 2, Indiana.

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PROTECT YOUR BERRY CROPS. CHEESE cloth 100 yards by 48" in convenient 10 yard cloth 100 yards by 48" in convenient 10 yard lengths. \$7.00 prepaid. 50% less mill price. JOSEPH HEIN, Box 356B, Thornwood, N.Y.

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GRAY HAIR RESTORED TO THEIR NA-tural color, this liquid stops falling hair and rids dandruff. \$2.00 Postpaid. FENDRICKS, 114 N. 6 St., Allentown, Penna.

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ARE YOU INTERESTED IN OFFERS FROM reliable manufacturers for your invention? reliable manufacturers for your invention? Patented, unpatented. HARVEY ASSOCIATES, Dept. 7A, Cambridge, Maryland.

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LEARN PROFESSIONAL CAKE DECORATing, Details free, DECO-SECRETS, Venice 33, Cal.

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WEAVE RUGS—MAKE GOOD PROFITS. NO experience necessary! Free Catalog, sample card, and low prices on carpet warp, rug filler, looms, parts, inexpensive beam counter. If you have loom, please advise make, weaving width. OR. RUG COMPANY, Dept. 9965, Lima, Ohio.

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150 ACRES FOR SALE. INCLUDES GRAPES, sweet and sour cherries, peaches, pears, prunes, currants, apples, refrigerated cold storage, four houses, roadside market, open land, 100 acres in fruit, mostly in bearing, stocked private lake, contact owner. WALTER FALVAY, Westfield, N.Y. Telephone Fairview 6-2970.

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IDEAL ORCHARD LOCATION WITH ½
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RAISE ANGORA, NEW ZEALAND RABBITS on \$500 month plan. Plenty markets. Free details. WHITE'S RABBITRY, Delaware, Ohio. EXTRA DOLLARS RAISING ANGORA AND New Zealand white rabbits. Ready market for your production. Free details. Martin's Rabbitry, Morganfield, Ky.

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WANTED: USED APPLE SCREENS. PLEASE advise price. SOUTH HURON ORCHARDS, 38035 South Huron Road, New Boston, Michigan.

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Plants. The Largest, Best Selling, ship-ing berry grown. Will grow and produce in rowen to be superior to any other Red Rasp-ction Guaranteed. State Inspected. Will to that do not grow.

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APLE BEND NURSERY FRUIT TREES ORNAMENTAL SMALL FRUIT PLANTS TREES AND SHRUBS

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GROW MUSHROOMS. Cellar, shed and outdoors Spare, or full time, year round. We pay \$4.59 lb. dried. We have 29,000 customers. FREE BOOK. Washington Mushroom Ind., Dept. 321—2954 Admiral Way, Seattle, Wash.

YOUR VINES WILL TELL

(Continued from page 9)

such high amounts that additions are not necessary.

4) Obtain an analysis of the soil to help in determining the rate of application of the deficient element.

A soil test alone is useful on a site to be planted with grape vines only if soil test data have been correlated with vineyard fertility trials. For example, for field crops on Chenango soils, a response to added potassium may be expected if the exchangeable potassium is less than 80 pounds per acre. On Chenango soils, grapes have responded to additional potassium when the soil had 200 to 250 pounds of exchangeable potassium. The correlation may vary with the nature of the soil testing procedure.

With deficiency symptom ratings and/or petiole analyses, a soil test is also useful in determining the rate of application of the element that is deficient. In less than 2% of the leaf area is chlorosed by potassium deficiency in early September on a clay soil of pH 7, more than twice as much potassium fertilizer is needed as for a sandy soil whose pH is 5.

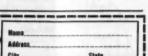
5) Apply the mineral nutrient according to the severity of the de-

ficiency.

If the application of potash, magnesium, or manganese is made before harvest, the rate can be varied with the severity of the symptoms. Where petiole analyses are used to identify the symptom, the application should be restricted to the area represented by the sample.

6) Determine the vine vigor and compare with the specified vineyard goal.

With vines whose foliage is free of deficiency symptoms and where the non-nutritional factors are not limiting, vine vigor can usually be increased or decreased by variations in water and nitrogen supply. The vineyardist's tools here are weed control and spring nitrogen fertilization, varying from 0 to 80 pounds of nitro-THE END. gen per acre.



. . TEAR OUT AND MAIL THIS AD WITH YOUR NAME & ADDRESS HERE I BIG BOX OF FULL-SIZE PRODUCTS

BLAIR, Dept. 660CS, Lynchburg, Virginia

SEPTEMBER, 1959



Ideal for home gardens, require little space, full sized fruit, begin fruiting 2nd or 3rd year. Enjoy delicious fruit from your own trees. We have dwarf peach, apple, pear and new North Star cherry. Also new grapes, berries, nut trees, fruit trees, blueberries, strawberries, shade and ornamental trees. Miller's color catalog FREE.

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DWARF APPLE TREES

Available on Malling I, II, VII, IX, Mailing Merton 106, 109, 110 and 111.

DWARF PEAR TREES

budded on Old Home

We are one of the country's oldest Nurseries and the largest grower of fruit trees east of the Mississippi River. If you have a special strain or selection, we will bud on contract

Write us for commercial fruit growers price list.

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LOW AS APPLE 20c

TENNESSEE NURSERY CO., BOX 4, CLEVELAND, TENNESSEE

FRUIT TREES, STRAWBERRY, RASPBERRY AND BLUEBERRY PLANTS



Dwarf Apple Tre root stock, Nut and Snade Trees, ornamentals. Complete line highest quality nursery stock at low prices. Get our free 60-page catalog and planting guide, then order for plant-BOUNTIFUL RIDGE NURSERIES

Certified Cultivated Blueberry

10 BEARING AGE PLANTS . \$4.50

EARLY-MID SEASON-LATE Send for Literature and Price List PLANTS: WHOLESALE AND RETAIL 17 VARIETIES
MONROE FARMS
BROWNS MILLS, N.J.

BOX 426

DEPENDABLE FRUIT AND NUT TREES. SMALL FRUITS. ORNAMENTALS. and GENERAL NURSERY STOCK. WRITE FOR FREE CATALOG.

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Berry Plunts, Roses, Bulbs · FREE CATALOG

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DWARF FRUIT TREE UNDERSTOCK

APPLE • PEAR • PEACH • PLUM APRICOT • CHERRY • NECTARINE

Seven Dwarft Nursery Medford, Oregon

Control of Condition Is Next in Line

THE summer meeting of International Apple Association in Seattle, Wash., stressed the importance of a condition-control program so that the consumer can have the crisp, juicy apples he prefers. While this is very important for the apple, it is equally important for all fruits that go to market.

That this is the next major step in marketing is apparent from the emphasis rolling up from all sides.

Henry Miller, of West Virginia, suggests that condition requirements be written into grade laws.

Illinois has revised its maturity standards for Golden Delicious with the objective of eliminating lowquality fruit.

New York State has moved to protect CA (controlled atmosphere) fruit by requiring the registration of owners and operators of CA storages. Periodic inspections are made to see that the CA storages are working properly.

Harold Copple, of Wenatchee, Wash., explains that western growers are attacking quality problems by planting red color sports, by better nitrogen fertilizer practices, by more spot picking, by packing house pools based on condition as well as on grade and size, by increased and more efficient cold storage, and by faster movement of fruit out of the orchard through bulk handling.

All of this is in the right direction, and it will pay off. Further, the program must eventually be national in scope. Nothing hurts the sale of good fruit more than some poor quality junk in the next bin—no matter where it comes from.

Fruit Talk

There is nothing new under the sun. Looking out the window of a moving train in northern Italy you see the original mechanical harvest platform—women gathering fruit from a high wagon as oxen slowly draw it down the row of high-headed trees. And in Ireland the original milking parlor comes to the cow in the field—with a horse-drawn wagon, a pail, and a three-legged milking stool.

In west England there is said to be a planting of fruit trees grown as vertical cordons, set 3 feet by 1 foot, or 14,520 trees to the acre!

Far from perfection and much scoffed at by those who rightfully want something better, the time interval in days between full bloom and fruit maturity is still a useful gauge for planning orchard operations. Some say that there is nothing that comes closer to the proper time of picking.

"A tree is a plant that stands by itself and can be climbed in," says John M. Haller in *Tree Care*, an accurate, wellwritten, readable, practical book "for the tree owner who is interested in life-long beautification of his property, whether he possesses a single tree or a forest."

For an inspiration in what dwarfing rootstocks can do, drop in on F. E. Green, at Allen, Mich., and see his 1900 dwarfed trees, including Northern Spy on EM VII which are fruiting at five years of age.

A farsighted English fruit grower is inquiring for small, plastic, air-filled cushions for fruit packing. Any suggestions?

A little summer browsing brings down from the shelf the Proceedings of the American Society for Horticultural Science for 1926, the frontispiece being the photograph of the late Dr. E. C. Auchter, one of the great American leaders in scientific horticulture.

The ASHS secretary summarizes the meeting of this august and learned society by saying, "The business session was the most exciting, the most earnest and the most progressive we have ever had. How the boys drove their points home, how they disagreed; yet no bitterness developed and the rising vote settled all contested points"—the secretary being the late C. P. Close, another of the leaders in fruit growing in America.

And finally on the last page of the same publication (page 273) appears, "as horticulturists we must look forward to a lifetime of work and service to our entire field . . . on man can master everything . . enthusiasm and effectiveness are increased by knowing some part of it well . . . the opportunity to do is the greatest reward of doing"—by Dr. E. J. Kraus, another of the great names in horticulture, now retired and living in Oregon.

—H.B.T.

Coming Next Month

- · Saving Trees by Inarching
- · Grape King of San Joaquin Valley
- Fruit Growing in the Soviet Union
- Know Your Costs
- Fertilizing Tart Cherries

Mechanical Harvesting Moves Ahead

FOR a very long time AMERICAN FRUIT GROWER has been trying to drive home the importance of removing the hand labor bottleneck from the fruit harvest. Most operations, from the planting of the tree to the sale of the fruit to Mrs. Housewife, have become, to some degree at least, mechanized. But harvest has been the problem.

To be sure, we have attacked the problem from both ends and tried to strangle it. At one end we have lowered the height of trees, we have learned how to promote annual bearing and to grow crops of uniform size and color. This facilitates harvest and handling.

At the other end of the line have come bulk handling, forklift trucks, automatic dumpers, giant graders, and automatic baggers.

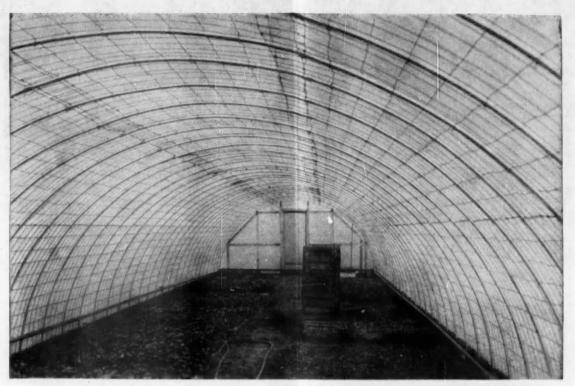
Now we are concentrating on harvest. The three-tier picking crew was a step but did not go far enough. Dwarfed trees are coming ahead and will help. Somehow, somewhere we will eventually lick the hand operation at harvest.

Prune growers and walnut growers have been shaking fruit from the trees for some time. Vegetable growers have learned much in mechanical harvesting of beans, peas, cucumbers, tomatoes. Blueberries are almost at the point of breakthrough. Now comes the news that there is great promise in shaking cherries from the tree.

It will all come. You can depend upon it. Just encourage everyone you know who has a wild idea of how to do the job. Don't laugh at him and call him odd—just encourage him. It is important.

Fruit Growing is Such Fun!





JUST IMAGINE! A FULL SIZE GREENHOUSE FOR \$900! SO STURDY IT WITHSTANDS VIOLENT STORMS!

For Just \$900 Materials Cost, Bill Cunningham, Owner of Cunningham Gardens, Waldron, Indiana, Built This Greenhouse of VISQUEEN Film. It Would Have Cost \$10,000 If Built Of Glass, He Saved \$9,100!

This is the third greenhouse of VISQUEEN film built by Cunningham. He framed it with arches of 34" thin wall conduit, set into 20" steel pipe. The pipe is buried in the ground full length. Tubing is joined by concrete reinforcing wire, giving the structure such stability it withstood violent storms last summer.

Other advantages: In addition to initial savings, you can line the interior of a glass or VISQUEEN film house with VISQUEEN film, and save up to 50% in heating costs. The nearperfect dead air space formed between an inside and outside "wall" of film, retards heat loss.

You can replace the outside film once each year for less than the upkeep costs of a conventional greenhouse.

You save on labor, too. Plants thrive on less frequent watering required with a greenhouse of VISQUEEN film.

FOR YOUR PROTECTION: Be sure you get VISQUEEN film, marked every foot with the trademark VISQUEEN to protect you against imitation. Only VISQUEEN film comes in seamless widths through 32' for easier handling. Only VISQUEEN film gives you the superior uniformity of thickness that means greater strength.

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Front fork lift: Harlo

DOUBLE LIFT on a new International 460 Utility CUTS FRUIT HANDLING COSTS



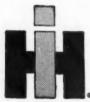
Fork lift: Harlo

For year 'round loading and handling, you'll get efficient, low-cost operation with this 4,000-pound capacity fork lift and reverse steering. This fork lift is available for both International 340 Utility and 460 Utility tractors.

Now, slash fruit-handling costs in orchard and grove with a new International 460 Utility equipped with fork lifts, both fore and aft. Here's big-capacity, carry-all service that speeds short hauls, often displacing the need for loading and unloading trucks.

Power, smooth and BIG, is developed by the new International 460 Utility—over 48 hp at the drawbar. New 6-cylinder power plant delivers the smoothest, most satisfying tractor power you've ever experienced. Multi-Range design insures top efficiency and economy at every setting from partload to full-throttle. Gasoline, Diesel, and LP-Gas models.

Built-in brawn assures strength, stamina, and traditional IH-dependability. Bonus brawn improves traction on steep slopes.



Test the new 460 Utility at your nearby IH dealership. Or write for catalog: International Harvester Company, Dept. AFG-9, P. O. Box 7333, Chicago 80, Illinois.

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